

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/16240

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C23F 1/00, 1/08
 US CL : 216/62, 63, 65, 78

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 U.S. : 216/62, 63, 65, 78

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 1 052 689 A1 (GEORGE et al.) 15 November 2000 (15.11.2000), paragraphs [0018], [0022], [0023], [0033]- [0036],	1-8, 11, 12, 17-21
Y	US 5,883,005 A (MINTON et al.) 16 March 1999 (16.03.1999), abstract; figure 3; column 5, lines 50-51; column 14, lines 15-25.	1, 4-12, 14-17, 20, 21
Y, T, P	US 2003/0168001 A1 (SNEH) 11 September 2003 (11.09.2003), paragraphs [0199] - [0204].	1, 12
A	US 5,350,480 A (GRAY) 27 September 1994 (27.09.1994), abstract; figure 3; column 5, lines 50-51; column 14, lines 15-25.	1, 12
X	US 2001/0055649 A1 (OGURE et al.) 27 December 2001 (27.12.2001), abstract, paragraphs [0020] - [0022], [0160] - [0179,].	1-21
Y	US 5,993,679 A (KIODE et al.) 30 November 1999 (30.11.1999), abstract; figure 1; column 1, lines 47-67; columns 5-9.	1, 12

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search 15 October 2003 (15.10.2003)	Date of mailing of the international search report 13 NOV 2003
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230	Authorized officer Allan W Olsen  Telephone No. 703-555-1212

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Continuation of B. FIELDS SEARCHED Item 3:
USPTO, USPGPUB, EPO, JPO Derwent, IBMDB
etch Cu copper oxygen O atom atomic diketone acac acacH tfacH hfacH